NJD002325074 1383

LENOX

April 1, 2005

Mr. Frank Faranca
Case Manager, Bureau of Publicly Funded Site Remediation
New Jersey Department of Environmental Protection
401 E. State Street P.O. Box 028
5th Floor West
Trenton NJ 08625-0028

RE: NJPDES-DGW Permit 0086487 Effective March 1, 2000

Dear Mr. Faranca:

Two copies of the Discharge to Groundwater Report consisting of one (1) T-VWX-014, seven (7) VWX-015 Groundwater Analysis – Monitoring Well reports and report Sections 1.0 through 8.0 for the January through March 2005 quarter are enclosed.

Detection Monitoring was performed in accordance with Part 4-DGW Table 2, using the Ground Water Sampling and Analysis Plan approved in April 1996.

Lenox inspection logs were reviewed and a summary of the logs for the quarter is enclosed.

The "Mann-Whitney U-Test" statistical analysis of the ground water TCE results from the five (5) sentinel wells over eight (8) sampling quarters was rolled forward twenty-one (21) quarters to cover the October 2004 data and is included in section 7 of the report. The null-hypothesis is accepted for sentinel wells MW-75, MW-76, MW-77, MW-78 and MW-79A and we cannot statistically conclude that the TCE concentrations are decreasing for the twenty-first (21st) quarter's data set. In addition, MW-75 has been non-detect for the past twenty-two (22) consecutive quarters.

The **bold** data in the tables denotes elevated results, which exceed the site-specific GWQC's for lead (10ug/l) and zinc (36.7 ug/l) as determined by calculating their arithmetic means from data reported in a 3-year study. Trichloroethylene levels are compared to the New Jersey limit of 1.0 ppb. Please note:

- MW-3 showed elevated levels of total lead, while MW-72, MW-73, MW-74 and MW-75 showed elevated levels of total lead but not dissolved lead.
- MW-3, MW-4, MW-15, MW-17, MW-25, and B-31, showed elevated levels of both total and dissolved zinc. MW-72, MW-73, 4MW-74 and MW-75 showed elevated levels of total zinc but not dissolved zinc;

651291

LENOX TECHNICAL SERVICES, TILTON ROAD, POMONA, NJ 08240 TEL. 609-965-8260 FAX 609-965-8282

Re: NJPDES-DGW Permit 0086487 Effective March 1, 2000

- Of the seventeen (17) wells sampled for TCE this quarter, six (6), were higher than the last time they were sampled: MW-12S, MW-15, MW-76, MW-77, MW-78 and MW-79A. Three (3) wells decreased: MW-10, MW-12D, MW-15, and B-31, MW-76. Seven (7) wells: MW-1, MW-13, MW-14D, MW-25, B-59, MW-75, MW-80 and MW-81 remained essentially the same;
- TCE was elevated in three (3) of the five (5) downgradient sentinel wells, MW-77, MW-78 and MW-79A at 1.9, 2.0 and 7.0-ug/L, respectively. All three (3) of these sentinel wells increased slightly;
- The volatile organic compound cis-1, 2-dichloroethene was detected in seven (7) wells: MW-10, MW-12D, MW-15, B-31, MW-77, MW-78 and MW-79A. Trans-1,2-dichloroethene was detected in MW-79A. TCE daughter species were not detected in any other wells;
- The Monthly Daily Average Flows for the quarter were 357,603 -gallons per day for December 2004, 354,903 -gallons per day for January 2005 and 355,572 -gallons per day for February 2005;
- GAC Treatment System influent and effluent unfiltered water samples contained elevated total zinc at 123-ug/L, and 332-ug/L respectively. The filtered influent, mid and effluent water samples contained elevated zinc at 72.6-ug/L, 38.4-ug/L and 364-ug/L - respectively. The zinc is attributed to the higher zinc levels observed in B-31 and, previously, other wells. ;
- The No TCE daughter compounds were detected in the GAC Treatment System influent, mid or effluent water samples;
- Lead was detected, at less than elevated levels, in the GAC Treatment System, unfiltered, mid and effluent water samples and the filtered mid and effluent samples;
- TCE was detected below the New Jersey MCL of 1.0 ug/l in only one (1) of the three (3) residential, downgradient wells sampled.

Please call (609) 965-8272 if there are any questions.

Sincerely,

John F. Kinkela

John F. Kinkela
Director of Environmental Engineering

Enclosures -Pomona DGW and TCE Quarterly Groundwater Monitoring Report – January 2005 Monitoring Round
-Summary of Inspection Logs – January through February 2005 Quarter

bcc: J.H. Ennis (w/attachments)
L.A. Fantin, Lenox (w/attachments)
~~Andrew Park (w/attachments)~~
File

NE W JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Form T-VWX-14

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES No. 0 0 8 6 4 8 7

REPORTING PERIOD MO YR 0 1 0 5 thru MO YR 0 3 0 5

PERMITEE: Name LENOX INCORPORATED
Address 100 LENOX DRIVE
LAWRENCEVILLE, NEW JERSEY 08648

FACILITY: Name LENOX CHINA, A DIVISION OF LENOX INCORPORATED
Address TILTON ROAD
POMONA, NEW JERSEY 08240 (County) ATLANTIC
Telephone (609) 965-8272

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013A

GROUNDWATER REPORT *(As per permit)*

☒ 7 VWX-015 ☐ VWX-016 ☐ VWX-017

NJPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-01

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "yes" on reverse side in appropriate space.)

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment

LICENSED OPERATOR

Name _____

Grade & Registry No. _____

Signature _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name JOHN F. KINKELA

Title DIR. OF ENVIRONMENTAL ENGINEERING

Signature John F. Kinkela

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

Form VWX-15A

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-1

FACILITY NAME	SW ID No.
LENOX CHINA	
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No.	WELL PERMIT No.	SAMPLE DATE YR MO DAY	NJ LAB CERT No.	WQM USE
S NJ 0086487	36 - 03025 - 2	05 01 20	1212 9	
1 2 8	9 16	17 22	23 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 05 (MO YR) 03 05 (MO YR)

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	69.28	
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	67.00	
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	11.02	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	8.74	✓
X												Sodium, Total	mg/l as Na	80235	10.20	✓
X			X			X			X			Lead, Total	ug/l as Pb	01051	3.0	K ✓
X			X			X			X			Zinc, Total	ug/l as Zn	01092	20.0	K ✓
X												Sodium, Dissolved	mg/l as Na	80235	10.20	✓
X			X			X			X			Lead, Dissolved	ug/l as Pb	01051	3.0	K ✓
X			X			X			X			Zinc, Dissolved	ug/l as Zn	01092	20.0	K ✓
X			X			X			X			Total Dissolved Solids	ppm	70300	430	✓
X			X			X			X			Color	pt-co	00080	20.0	✓
X			X			X			X			pH	std. units	00400	5.11	✓
X			X			X			X			Conductance, Specific	umhos/cm	00095	183.0	✓
X			X			X			X			Dissolved Oxygen	mg/l		6.60	✓
X												Sulfate, Dissolved (as SO_4)	mg/l	00946	10.5	✓
X												Nitrogen, Ammonia Dissolved NH_3+NH_4 as N	mg/l as N	00608	0.10	K ✓

Form VWX-15A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-3

FACILITY NAME	SW ID No.
LENOX CHINA	
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No.: S NJ 0 0 8 6 4 8 7 (1, 2–8)

WELL PERMIT No.: 3 6 - 0 3 0 2 7 - 9 (9, 16)

SAMPLE DATE: YR 0 5 | MO 1 0 | DAY 2 1 (17–22)

NJ LAB CERT No.: 1 2 1 2 9 (23–27)

WQM USE: ☐ (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 (MO) 0 5 (YR) 0 3 (MO) 0 5 (YR)

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	67.09	
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	65.00	
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	9.77	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	7.68	✓
X												Sodium, Total	mg/l as Na	80235	20.40	✓
X			X			X			X			Lead, Total	ug/l as Pb	01051	19.1	✓
X			X			X			X			Zinc, Total	ug/l as Zn	01092	2980	✓
X												Sodium, Dissolved	mg/l as Na	80235	20.10	✓
X			X			X			X			Lead, Dissolved	ug/l as Pb	01051	9.4	✓
X			X			X			X			Zinc, Dissolved	ug/l as Zn	01092	2980	✓
X												Total Dissolved Solids	ppm	70300	258	✓
X			X			X			X			Color	pt-co	00080	15.0	✓
X			X			X			X			pH	std. units	00400	6.01	✓
X			X			X			X			Conductance, Specific	umhos/cm	00095	590.0	✓
X			X			X			X			Dissolved Oxygen	mg/l		4.10	✓
X												Sulfate, Dissolved (as SO_4)	mg/l	00946	40.3	✓

Form VWX-15A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-4

FACILITY NAME	SW ID No.
LENOX CHINA	
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No.		WELL PERMIT No.		SAMPLE DATE YR MO DAY	NJ LAB CERT No.	WQM USE
S NJ 0086487		36 - 03119 - 4		050120	12129	
1 2 8	9		16	17	23 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0105 (MO YR) 0305 (MO YR)

SUBMIT WITH SIGNED T-VWX-014

J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	ANALYSIS	UNITS	PARAMETER	VALUE	REM
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	66.98	
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	65.00	
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	5.89	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	3.91	✓
X												Sodium, Total	mg/l as Na	80235	14.10	✓
X			X			X			X			Lead, Total	ug/l as Pb	01051	5.6	✓
X			X			X			X			Zinc, Total	ug/l as Zn	01092	37.1	✓
X												Sodium, Dissolved	mg/l as Na	80235	13.70	✓
X			X			X			X			Lead, Dissolved	ug/l as Pb	01051	5.1	✓
X			X			X			X			Zinc, Dissolved	ug/l as Zn	01092	37.8	✓
X												Total Dissolved Solids	ppm	70300	155	✓
X			X			X			X			Color	pt-co	00080	10.0	K ✓
X			X			X			X			pH	std. units	00400	6.02	✓
X			X			X			X			Conductance, Specific	umhos/cm	00095	325	✓
X			X			X			X			Dissolved Oxygen	mg/l		6.60	✓
X												Sulfate, Dissolved (as SO_4)	mg/l	00946	66.2	✓

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

Form VWX-15A

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

OWNER'S WELL ID No. MW-5

FACILITY NAME	SW ID No.
LENOX CHINA	MW-5
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No.: R NJ 0 0 8 6 4 8 7 (1, 2–8)
WELL PERMIT No.: 3 6 - 0 2 9 1 3 - 0 (9, 16)
SAMPLE DATE: YR 0 5 | MO 0 1 | DAY 1 9 (17–22)
NJ LAB CERT No.: 1 2 1 2 9 (23–27)
WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 0 5 (MO YR) 0 3 0 5 (MO YR)

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	64.17	
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	63.00	
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	8.41	
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	7.24	✓

Form VWX-15A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-6

FACILITY NAME	SW ID No.
LENOX CHINA	
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No.: S NJ 0 0 8 6 4 8 7 (1, NJ, 2–8)

WELL PERMIT No.: 3 6 - 0 3 2 7 0 - 1 (9, 16)

SAMPLE DATE: YR 0 5 | MO 0 1 | DAY 2 1 (17–22)

NJ LAB CERT No.: 1 2 1 2 9 (23–27)

WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 0 5 (MO YR) 0 3 0 5 (MO YR)

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM	
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	650.08		
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	630.00		
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	7.95		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	5.87		✓
X												Sodium, Total	mg/l as Na	80235	8.92		✓
X			X			X			X			Lead, Total	ug/l as Pb	01051	3.0	K	✓
X			X			X			X			Zinc, Total	ug/l as Zn	01092	20.0	K	✓
X												Sodium, Dissolved	mg/l as Na	80235	8.98		✓
X			X			X			X			Lead, Dissolved	ug/l as Pb	01051	3.0	K	✓
X			X			X			X			Zinc, Dissolved	ug/l as Zn	01092	20.0	K	✓
X												Total Dissolved Solids	ppm	70300	72.0		✓
X			X			X			X			Color	pt-co	00080	10.0	K	✓
X			X			X			X			pH	std. units	00400	4.31		✓
X			X			X			X			Conductance, Specific	umhos/cm	00095	220		✓
X			X			X			X			Dissolved Oxygen	mg/l		5.80		✓
X												Sulfate, Dissolved (SO_4)	mg/l	00946	40.9		✓

Form VWX-15A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-9

FACILITY NAME	SW ID No.
LENOX CHINA	
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No. S NJ 0 0 8 6 4 8 7 (1, 2–8)

WELL PERMIT No. 3 6 - 0 7 1 6 0 - 9 (9, 16)

SAMPLE DATE YR MO DAY: 0 5 0 1 2 1 (17–22)

NJ LAB CERT No.: 1 2 1 2 9 (23–27)

WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 0 5 (MO YR) 0 3 0 5 (MO YR)

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM	
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	69.51		
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	68.00		
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	12.23		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	10.72		✓
X												Sodium, Total	mg/l as Na	80235	48.60		✓
X			X			X			X			Lead, Total	ug/l as Pb	01051	3.0	K	✓
X			X			X			X			Zinc, Total	ug/l as Zn	01092	20.0	K	✓
X												Sodium, Dissolved	mg/l as Na	80235	48.30		✓
X			X			X			X			Lead, Dissolved	ug/l as Pb	01051	3.0	K	✓
X			X			X			X			Zinc, Dissolved	ug/l as Zn	01092	20.0	K	✓
X												Total Dissolved Solids	ppm	70300	202		✓
X			X			X			X			Color	pt-co	00080	15.0		✓
X			X			X			X			pH	std. units	00400	5.90		✓
X			X			X			X			Conductance, Specific	umhos/cm	00095	527		✓
X			X			X			X			Dissolved Oxygen	mg/l		1.40		✓
X												Sulfate, Dissolved (as SO_4)	mg/l	00946	68.8		✓
X												Nitrogen, Ammonia Dissolved NH_3+NH_4 as N	mg/l as N	00608	0.15		✓

Form VWX-15A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER FACILITIES REGULATION PROGRAM

GROUNDWATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-10

FACILITY NAME	SW ID No.
LENOX CHINA	
LAB NAME	
ACCUTEST, DAYTON, NJ	

NJPDES No.: S NJ 0 0 8 6 4 8 7 (1, 2–8)

WELL PERMIT No.: 3 6 - 0 7 1 6 1 - 7 (9, 16)

SAMPLE DATE: YR MO DAY: 0 4 1 0 2 0 (17–22)

NJ LAB CERT No.: 1 2 1 2 9 (23–27)

WQM USE: (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 0 5 (MO YR) 0 3 0 5 (MO YR)

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM	
X			X			X			X			Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110	6351		
X			X			X			X			Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009	6200		
X			X			X			X			Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546	671		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest 0.02	72019	520		✓
X												Sodium, Total	mg/l as Na	80235	290		✓
X			X			X			X			Lead, Total	ug/l as Pb	01051	32		✓
X			X			X			X			Zinc, Total	ug/l as Zn	01092	200	K	✓
X												Sodium, Dissolved	mg/l as Na	80235	295		✓
X			X			X			X			Lead, Dissolved	ug/l as Pb	01051	30	K	✓
X			X			X			X			Zinc, Dissolved	ug/l as Zn	01092	200	K	✓
X												Total Dissolved Solids	ppm	70300	1430		✓
X			X			X			X			Color	pt-co	00080	200		✓
X			X			X			X			pH	std. units	00400	548		✓
X			X			X			X			Conductance, Specific	umhos/cm	00095	3900		✓
X			X			X			X			Dissolved Oxygen	mg/l		410		✓
X												Sulfate, Dissolved (as SO_4)	mg/l	00946	388		✓

SUMMARY OF INSPECTION LOGS

Quarter January '05 – March '05

Facility: Glaze Basin Cap **Type:** Asphalt Paving

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: Cap is intact with no breaks or cracks in asphalt noted.

Remarks: None

Facility: Slip Mound Cap **Type:** Membrane with soil and vegetative cover - mounded

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: Vegetative cover is in good condition and no erosion was noted. Protective guardrail in good condition.

Remarks: None.

Facility: Nine (9) RCRA Monitoring Wells **Type:** N/A

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: All wells in good condition.

Remarks: . Sampled MW's 1, 3, 4, 6, 9 and 10 in January

SUMMARY OF INSPECTION LOGS

Quarter January '05 – March '05

Facility: Seven (7) Recovery Wells **Type:** N/A

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: All wells intact and secure. One well, RW-1, not in use.

Remarks: None

Facility: Polishing Basin **Type:** N/A - Closed

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: N/A

Condition: Clean closed. Vegetative cover is in place, no erosion noted.

Remarks: None.

Facility: Tilton Pond **Type:** Earth Dike, Unlined

Inspections: One time per day **Required:** Monthly

Repairs/Maintenance: SWMU closure delayed until Summer 2005 due to high groundwater

Condition: Vegetative cover on berms is in good condition and no erosion was noted. No industrial waste discharge to pond since August 1992. No overtopping controls required as pond is permitted to discharge non-contact cooling water and stormwater to surface water under NJPDES-DSW Permit #0005177.

Remarks: As industrial wastewater no longer flows through pond, final cleaning and sampling are planned, when groundwater is low, to effect clean closure.

SUMMARY OF INSPECTION LOGS

Quarter January '05 – March '05

Facility: Sludge Disposal Area **Type:** Asphalt Paving

Inspections: Monthly **Required:** No

Repairs/Maintenance: None.

Condition: Asphalt and fence in excellent condition.

Remarks: None

Facility: Area of Concern **Type:** Asphalt Paving, Membrane Cap & Fence

Inspections: Monthly **Required:** No

Repairs/Maintenance: None

Condition: Asphalt and fence in excellent condition.

Remarks: None

Prepared by: John T. Kunkela

Date: Apr. 1, 2005

C:\WPDATA\JFK\LTRS\DGW\INSP.LOG

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

CN 029
Trenton, New Jersey 08625-029

SAMPLE COLLECTION AND PRESERVATION FORM

(To be completed by sampling crew)

BACKGROUND

1) Facility Name: Lenox China

2) NJPDES Number: NJ0086487

3) Facility Address: Tilton Road, Pomona, NJ 08240

4) Owner's Name: Lenox China

5) Owner's Address: Tilton Road, Pomona, NJ 08240

SAMPLING PLAN

6) Has a sampling and analysis plan been developed for this facility as stipulated under N.J.A.C. 7:14A-6.9?
Yes X or No_____

7) If yes, has the sampling plan been approved by the Department?
Yes X or No_____

8) If the sampling plan has not been submitted to the Department, attach with these submitted forms.

SAMPLE COLLECTION

9) Sample Date/Time: 1/20/05-1/21/05

10)

Sampling Personnel (Name/Title)	Affiliation	Phone
Robyn Berner, Hydrogeologist	Gannett Fleming, Inc.	609-279-9140
E. Martin Hughes, Environmental Scientist	Gannett Fleming, Inc.	609-279-9140

11) Weather conditions at the time of sampling: Cloudy, 40 degrees F

12) Is there a designated level of protection, and if so, indicate:
A_____ B_____ C_____ or D X

STATIC WATER LEVEL MEASUREMENT AND WELL EVACUATION

13) What method was utilized to determine the static water level?
Electrical (m-scope) X Stainless Steel Tape _____
Sonic _____ or Other _____: (explain) _____

14) Measuring Device Precise to: 0.01 feet

15) Model Number: 101 Manufacturer: Solinst

16) Was the water level indicator deconned between wells?
Yes X or No_____

17) Describe the decontamination procedure: Deionized water rinse, wipe with paper towel, final deionized water rinse, air dry

18) Wells are to be purged three to five times prior to sampling. If wells are not purged as stated above, explain and justify the exact purge method used.
N/A

19) Method used for well evacuation: Pump X or Bailer_____

20) If bailed to evacuate, what are the dimensions of the bailer?
N/A

21) What is the volume capacity of the bailer? N/A

22) Pump Type: Submersible_____ Bladder_____ Gas Piston_____
Gas Displacement_____ or Other X
Explain: Peristaltic Pump

23) Pump Model Number / Flow Rate: Randolph Pump Model 750/1-6 gpm

24) Pump manufacturer: Randolph-Austin

25) Describe decontamination method used to clean pump between wells:
None - A new piece of tubing was used at each monitoring well

26) Power source for pump: Gasoline Powered generator_____
Gasoline Powered compressor___Propane Powered Engine__X__

27) Was the gasoline transported in the same vehicle as the sample bottles, field and trip blanks, or bailers?
Yes_____ or No__X__

28) Refer to the following chart for volume capacities for various wells per linear foot.

Casing Diameter	Gallons/Linear Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

29) Complete the below chart regarding evacuation measurements. Please note the following abbreviations: TOC=elevation of top of casing; TDW=total depth of well from from top of casing; DTW=distance to water from top of casing; # of bail vols=number of bail volumes. TOC, DTW, and TDW Should be measured and/or calculated to the nearest 0.01 foot. Also note that if a mechanical pump is used for purging, indicate the total minutes of pumping time below. If a bailer is used for purging, indicate the total number of bail volumes. Attach additional sheets if necessary.

SEE TABLE QAQC1 ON PAGE 3A

Well Permit No./Owners Well No.	TOC	DTW	TOC-DTW	TDW	gal./Lin. ft.	Amount of H2O in Casing	Amount of H2O Purged	# of Bail Vols	Minutes pumping time	Time purge comp-lete	Time Sample Col-lected

Table QAQC1
State of New Jersey
Department of Environmental Protection
Division of Water Resources
Groundwater Sampling Data Collected January 20-21, 2005

Well Permit Number	Owners Well Number	TOC (Feet)	DTW (Feet)	TOC-DTW (Feet)	TDW (Feet)	Gallons per linear foot	Amount of Water in Casing (gallons)	Amount of Water Purged (gallons)	Number of Bail Volumes	Minutes pumping time	Time purge completed	Time sample collected
36-03025-2	MW-1	69.28	11.02	58.26	29.75	0.65	12.2	40	-	14	16:00	16:00
36-03027-9	MW-3	67.09	9.77	57.32	30.40	0.65	13.4	41	-	15	10:07	10:07
36-03119-4	MW-4	66.98	5.89	61.09	26.80	0.65	13.6	41	-	11	16:22	16:22
36-02913-0	MW-5	64.17	8.41	55.76	17.95	-	-	Not Sampled	-	-	-	-
36-03270-1	MW-6	65.08	7.95	57.13	30.75	0.65	14.8	45	-	11	8:50	8:50
36-07160-9	MW-9	69.51	12.33	57.18	31.15	0.65	12.2	40	-	15	9:43	9:43
36-07161-7	MW-10	63.51	6.71	56.80	29.30	0.65	14.7	45	-	12	9:12	9:12

SAMPLE COLLECTION AND PRESERVATION

30) Matrices Sampled:
Aqueous: Potable Well_____ Monitoring Well__X__
Surface Water_____ Leachate_____ Other_____
Nonaqueous: Soil_____ Sediment_____ Other_____

31) Dedicated Hose: Yes__X__ or No_____

32) Hose Construction: PVC_____ Teflon_____ Tygon_____
Butyl_____ Other__X__ Explain: Drinking water grade polyethylene

33) Sample Collection: (Time of collection for each well/sample should be indicated on the back of this page) See table QAQC1 on page 3A
A) Bailer-construction: Teflon_____ Stainless Steel_____
PVC_____ HDPE __X__
B) Beacon Bomb Sampler_____ Size:_____oz.
C) Other_____ Explain:_____
_____

34) Lines used to lower bailer: Stainless Steel_____
Cable/Leader_____ Teflon_____ PVC Rope_____ Other 100% poly

35) Are dedicated bailers used for each well? Yes__X__ or No____

36) Are bailers: Laboratory cleaned_____ Laboratory Name_____
Field Cleaned_____ Describe method:_____
Disposable bailers used only once then discarded.
_____

37) Prior to use, are bailers, sample bottles, hoses, etc. Kept clean i.e., not placed in direct contact with ground, etc.:
Yes__X__ or No_____

38) Are sample bottles supplied by laboratory? Yes__X__ or No____

39) Are sample preservation instructions supplied by laboratory?
Yes__X__ or No_____

40) Are sample preservatives supplied by laboratory? Yes__X__ or No_____

41) Sample Preservation:

Constituent	Teflon top in contact with sample	Head Space	Refrig-erated	Acidified	Alkanized	Bottles
Volatile Organics	Yes	No	Yes	Yes	N/A	N/A
TOX	N/A	N/A	N/A	N/A	N/A	N/A
Extractable Organics	N/A	N/A	N/A	N/A	N/A	N/A
Metals	N/A	N/A	Yes	Yes	N/A	N/A
Cyanide	N/A	N/A	N/A	N/A	N/A	N/A
Phenols	N/A	N/A	N/A	N/A	N/A	N/A
Biological	N/A	N/A	N/A	N/A	N/A	N/A

42) Indicate below any other constituents to be analyzed and their forms of preservation: TDS, TSS, color, sulfate – refrigerated
Amm-N - acidified and refrigerated

43) Were samples for metals analysis filtered in field? Yes X or No_____

44) Were samples for metals analysis filtered in laboratory? Yes_____ or No X

45) Were field blanks taken? Yes X or No_____

46) Were trip blanks taken? Yes X or No_____

47) What parameters/analysis were performed on field and trip blanks?
Volatile Organics X (FB,TB) Semi-volatile_____ Pesticides_____
PCBs_____ Metals X (FB) Other TDS, TSS, color, sulfate, Amm-N (FB)

48) Prior to sampling, was an equipment blank performed? Yes_____
No X Sampling equipment is dedicated per well.

49) Prior to sampling each well, are disposable gloves worn? Yes X or No_____

50) If yes, are the gloves changed between wells? Yes X or No_____

CHAIN OF CUSTODY

51) Laboratory Name/Certification Number Accutest / 12129

52) Laboratory Address 2235 Route 130, Dayton, New Jersey 08810

53) Laboratory receipt date and time 1/21/05, 14:00

54) Attach Chain of Custody: Yes X or No

Sample Number	Relinquished by	Received by	Time	Date	Reason for change of custody
MW-1, MW-3, MW-4, MW-6, MW-9, MW-10, MW-2, FB, TB	R. Berner	Accutest	14:00	1/21/05	Relinquished to lab

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information contained in this report, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete and meets the description specified in N.J.A.C. 7:14A-2.5(a)10, and 6.1 through 6.12. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Sampler

Name/Title (printed) Robyn Berner, Hydrogeologist

Signature Robyn Berner Date: 1/31/05

Company Name and Address Gannett Fleming, 202 Wall Street, Princeton, NJ 08540

Notes:

1. The sampling team may use their own reporting forms only if the forms contain all the information required in this sample collection and preservation form.

2. If any of the items within this sample collection and preservation form vary for different monitor wells, the information must be documented within this form or as attachments to this form.

ACCUTEST Laboratories

FB
TB

CHAIN OF CUSTODY

2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control # N39025
Accutest Quote #	Accutest Job # ~~N87025~~

Client / Reporting Information

Company Name	Gannett Fleming
Address	202 Wall St.
City / State / Zip	Princeton NJ 08540
Project Contact	Robyn Berner
E-mail	
Phone #	609-279-9140
Sampler's Name	

Project Information

Project Name	Lenox NJPDES
Street	Tilton Rd.
City / State	Pomona NJ
Project #	43838.001
Fax #	
Client Purchase Order #	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	8260 ☐ 624 ☐ 8021 ☐ 602 ☐ PALG ☐ / BTEX ☐ MTBE ☐ TBA ☐ NAP ☐ FALG ☐	8260 ☐ 624 ☐ TCL ☐ PPL ☐ STARS ☐ MTBE ☐ / TBA ☐ NAP ☐ +10 ☐ +15 ☐	8270 ☐ 625 ☐ TCL ☐ PPL ☐ STARS ☐ / ABN ☐ BN ☐ PAH ☐ PACF ☐ +/-C8 ☐	Total Na/Pb/Zn	Dissolved Na/Pb/Zn	Total Fe	Dissolved Fe	TDS/TSS	Sulfate, Color	~~A~~Amm-N	VOC	LAB USE ONLY
-1 F	MW-1		1/20	16:00	RB	GW	8	3		2	1	2							X	X	X	X	X	X	X	X	
-2 F	MW-3		1/21	10:07	↓	↓	4			2		2							X	X			X	X			MES
-3 F	MW-4		1/20	16:22			4			2		2							X	X			X	X			4C20
-4 F	MW-6		1/21	8:50			4			2		2							X	X			X	X			2 1/68
-5 F	MW-9		1/21	9:43			5			2	1	2							X	X			X	X	X		
-6 F	MW-10		1/21	9:12			7	3		2		2							X	X	X	X	X	X		X	
-7 F	MW-2		1/21	9:12			7	3		2		2							X	X	X	X	X	X		X	
-8 F	EB		1/21	10:15	↓	LQ	7	2		2	1	2							X	X	X	X	X	X	X	X	
-9	TB ✱		1/21	—	—	LQ	2	2																		X	

Turnaround Time (Business Days)

- ☒ Std. 15 Business Days
- ☐ 10 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other 10

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☒ NJ Reduced
- ☐ NJ Full
- ☐ Other ______
- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☒ EDD Format ______

Commercial "A" = Results Only

Comments / Remarks

✱ Date: 01-18-05, TIME: 06:30

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received by	Relinquished by	Date Time	Received by
1 Robyn Berner	1/21/05 1400	1 Todd R. Shoemaker	2 Todd R. Shoemaker	1/21/05 1400	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐ K 01-21-05	On Ice ☒ Cooler Temp. 4.8°

2B

N89025

LABORATORY SAMPLE CHAIN OF CUSTODY/CHRONICLE FOR NJPDES COMPLIANCE MONITORING

Relinquisher of sample: (please print)

Name: Robyn Berner Signature: Robyn Berner

Company: Gannett Fleming

Title: Hydrogeologist

Date: 1/21/05 Time: 14:00

Laboratory sample recipient: (please print)

Name: M. Popow Signature:

Laboratory Name: Accutest

NJDEP Laboratory Cert. No. 12129 Title: Spx. Mgmt. Supervisor

Date: 01/21/2005 Time: 1400

Did samples arrive cold? Yes ✓ or No ___

Were the samples properly preserved? Yes ✓ or No ___

If no, which analyses will be affected: ___

Did sample for the analyses of volatile organics contain headspace? Yes ___ or No ✓

Was the septum in place with the TFE side down? Yes ✓ No ___

N89025

Sample Preparation Chemist

	Name please print	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals			
7. Other			
8. Other			
9. Other			

Analyst

	Name please print	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals			
✓ 7. Volatiles	Qin Xu		3/21/05
8. TOC			
9. TOX			
10. Phenols (total)			
11. Cyanide (total)			
12. Other			
13. Other			
14. Other			
15. Other			

N89025

Sample Preparation Chemist

	Name please print	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals			
7. Other			
8. Other			
9. Other			

Analyst

	Name please print	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals			
7. Volatiles			
8. ~~TOC~~ TSS	(MC) Mabel Cortes	Mabel Cortes	3/30/05
9. ~~TOX~~ TDS	(MC) Mabel Cortes	Mabel Cortes	3/30/05
10. Phenols (total)			
11. Cyanide (total)			
12. Other (SO4)	(MT) Mark Tkaczyk		3/30/05
13. Other (AMN)	(JH) Jasmine Haddish	Jasmine Haddish	3/30/05
14. Other (COL)	(MM) Mel Magalig		3/30/05
15. Other			

N89025

Sample Preparation Chemist

	Name please print	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals	Julie Hong	Julie M. Hong	2/10/05
7. Other			
8. Other			
9. Other			

Analyst

	Name please print	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			2/10/05
6. Metals	RAKESH PATHAK		2/28/05 3/28/05
7. Volatiles			
8. TOC			
9. TOX			
10. Phenols (total)			
11. Cyanide (total)			
12. Other			
13. Other			
14. Other			
15. Other			

N89025

Did any of the sample extractions and/or analyses exceed holding times? Yes____ No X

If yes, which analyses will be affected:

_____

_____

_____

If re-extraction and/or re-analysis is necessary, indicate the reason and attach another Laboratory Chain of Custody/Chronicle with the appropriate signatures and dates.

Quality Assurance Officer

Name (please print)	Signature	Date
David N. Speis	Paul M. Speis	31 Mar 05

NJ9075

LABORATORY AUTHENTICATION STATEMENT FOR NJPDES COMPLIANCE MONITORING

I certify under penalty of law, where applicable, this laboratory meets the Laboratory Performance Standards and Quality control requirements specified in N.J.A.C. 7:18, 40 CFR 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and that, based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR 136, and/or SW 846. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Laboratory Manager (as defined in N.J.A.C. 7:18)

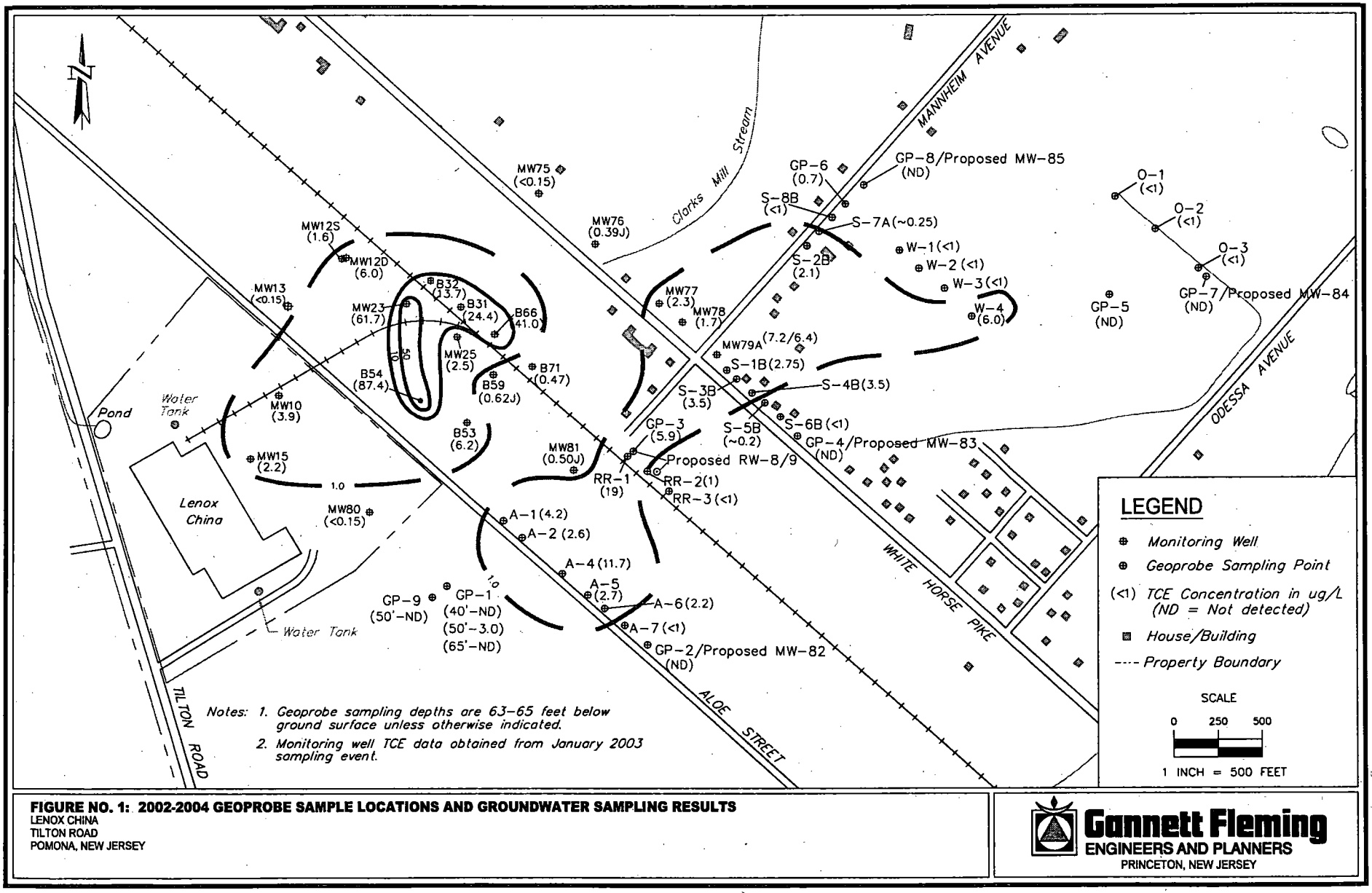


FIGURE NO. 1: 2002-2004 GEOPROBE SAMPLE LOCATIONS AND GROUNDWATER SAMPLING RESULTS
LENOX CHINA
TILTON ROAD
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

Attachment 1

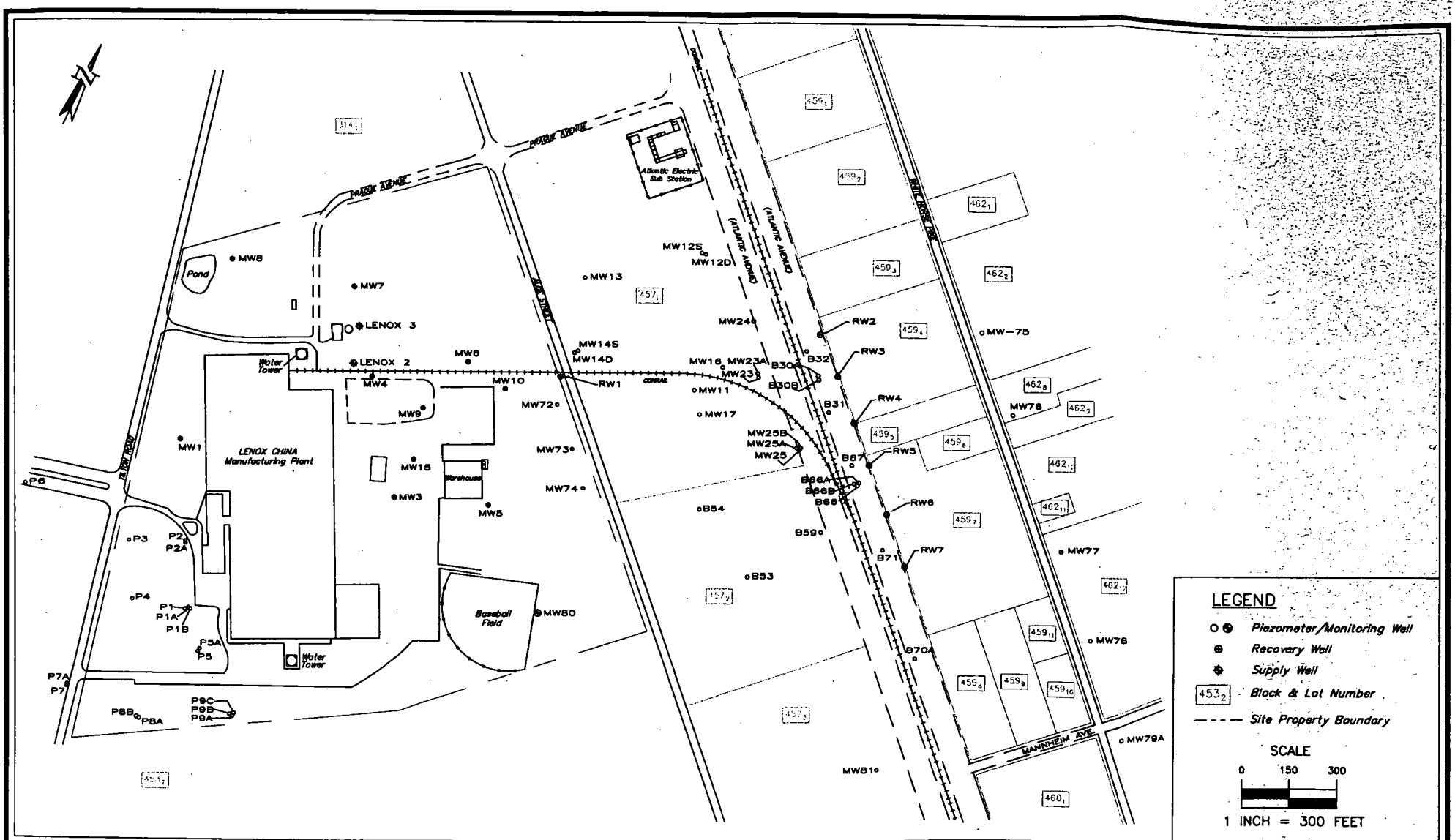
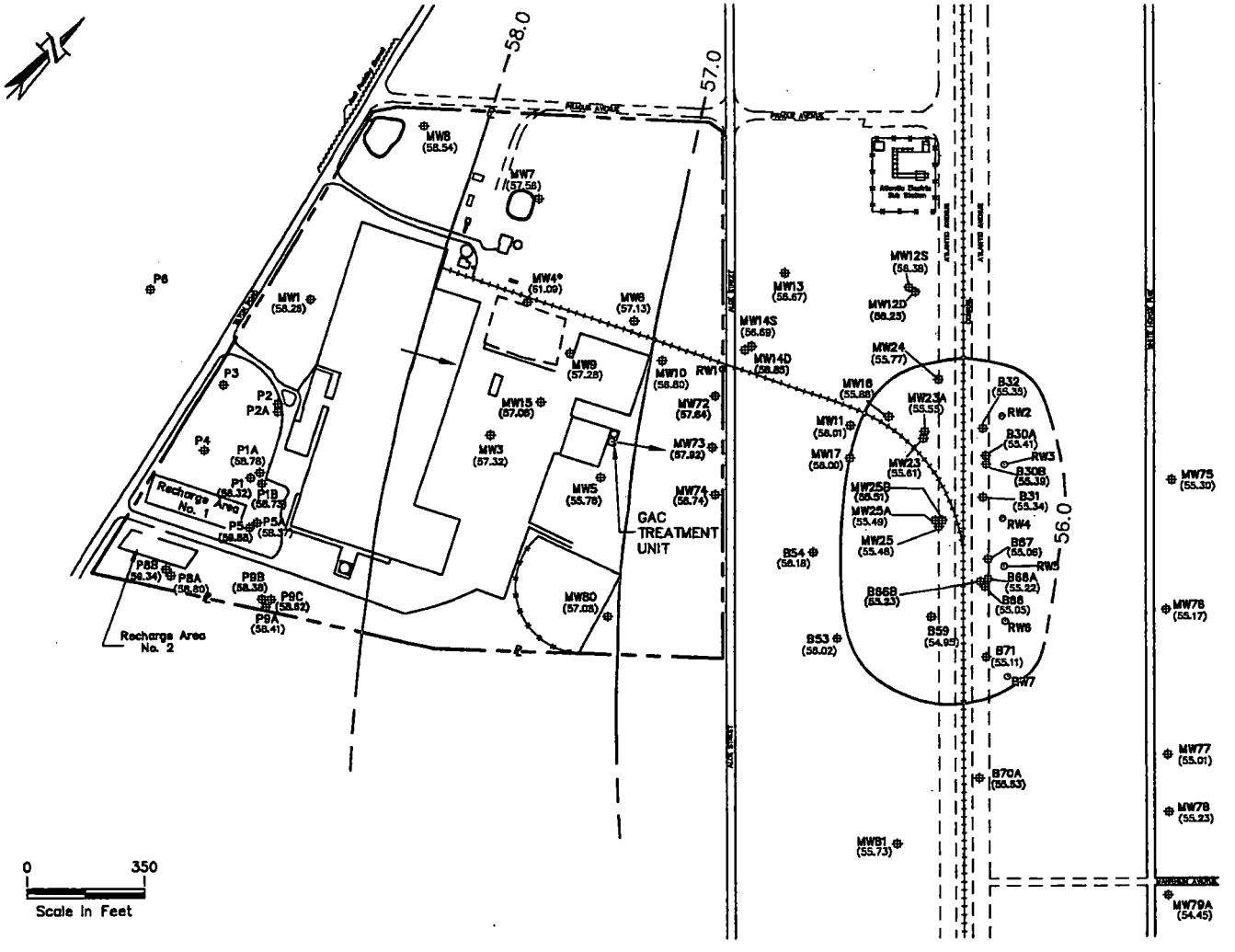


FIGURE NO. 2: SITE PLAN
LENOX CHINA
TILTON ROAD
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY



LEGEND

- B86 (55.05) ⊕ — Location Of Monitoring Well With Groundwater Elevation In Feet Above MSL
- RW5 ⊖ — Location Of Recovery Well
- 54.0 —— — Line Of Equal Water Level Elevation In Feet Above MSL (Dashed Where Inferred)
- ←—— — Groundwater Flow Direction

NOTES:

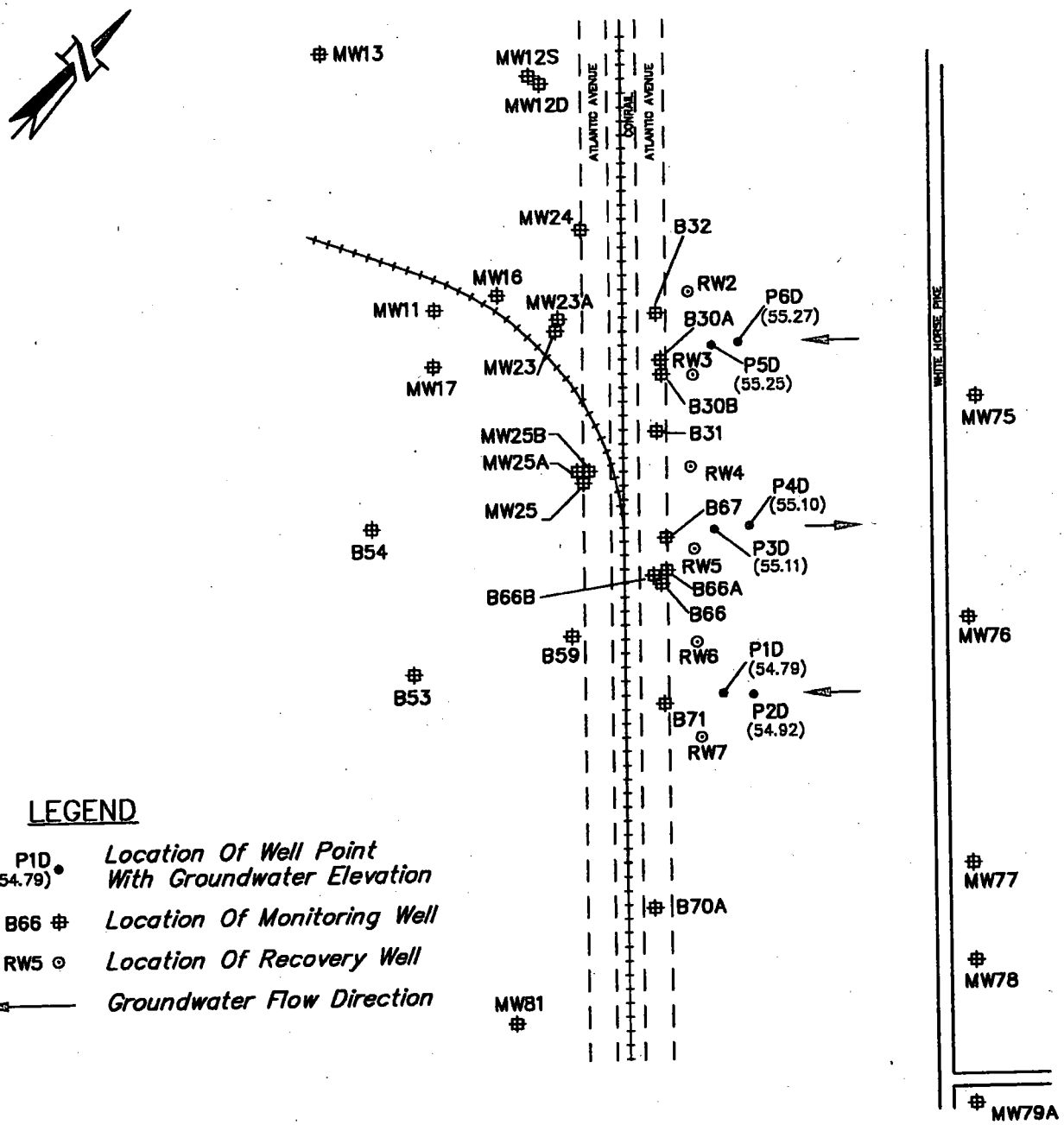
* – Anomalous reading consistent with previous measurements

Contour lines developed using data from wells screened in same water bearing zone as recovery wells (indicated in color).

FIGURE NO: 1 GROUNDWATER FLOW MAP, JANUARY 19, 2005
LENOX CHINA
POMONA, NEW JERSEY

Source: Base Map Obtained From Geraghty & Miller's August 1992 Groundwater Monitoring Report

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY



LEGEND

- P1D (54.79) — *Location Of Well Point With Groundwater Elevation*
- B66 — *Location Of Monitoring Well*
- RW5 — *Location Of Recovery Well*
- *Groundwater Flow Direction*

NOTE:

Base Map Obtained From Geraghty & Miller's August 1992 Groundwater Monitoring Report.

0 300

Scale In Feet

FIGURE NO: 3 GROUNDWATER FLOW MAP, DEEP WELLS JANUARY 19, 2005

LENOX CHINA
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

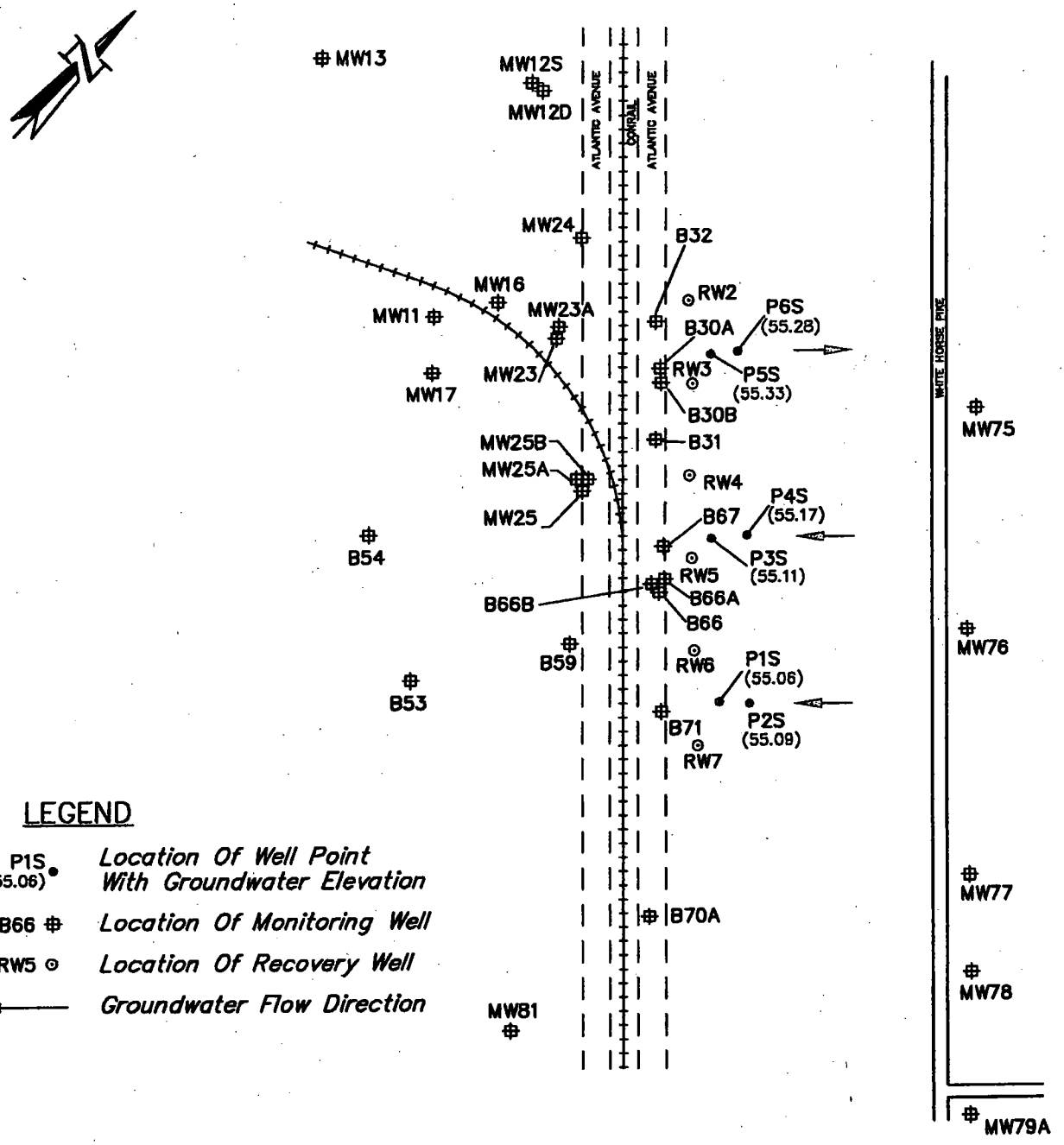


FIGURE NO: 2 GROUNDWATER FLOW MAP, SHALLOW WELLS JANUARY 19, 2005

LENOX CHINA
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

Attachment 2

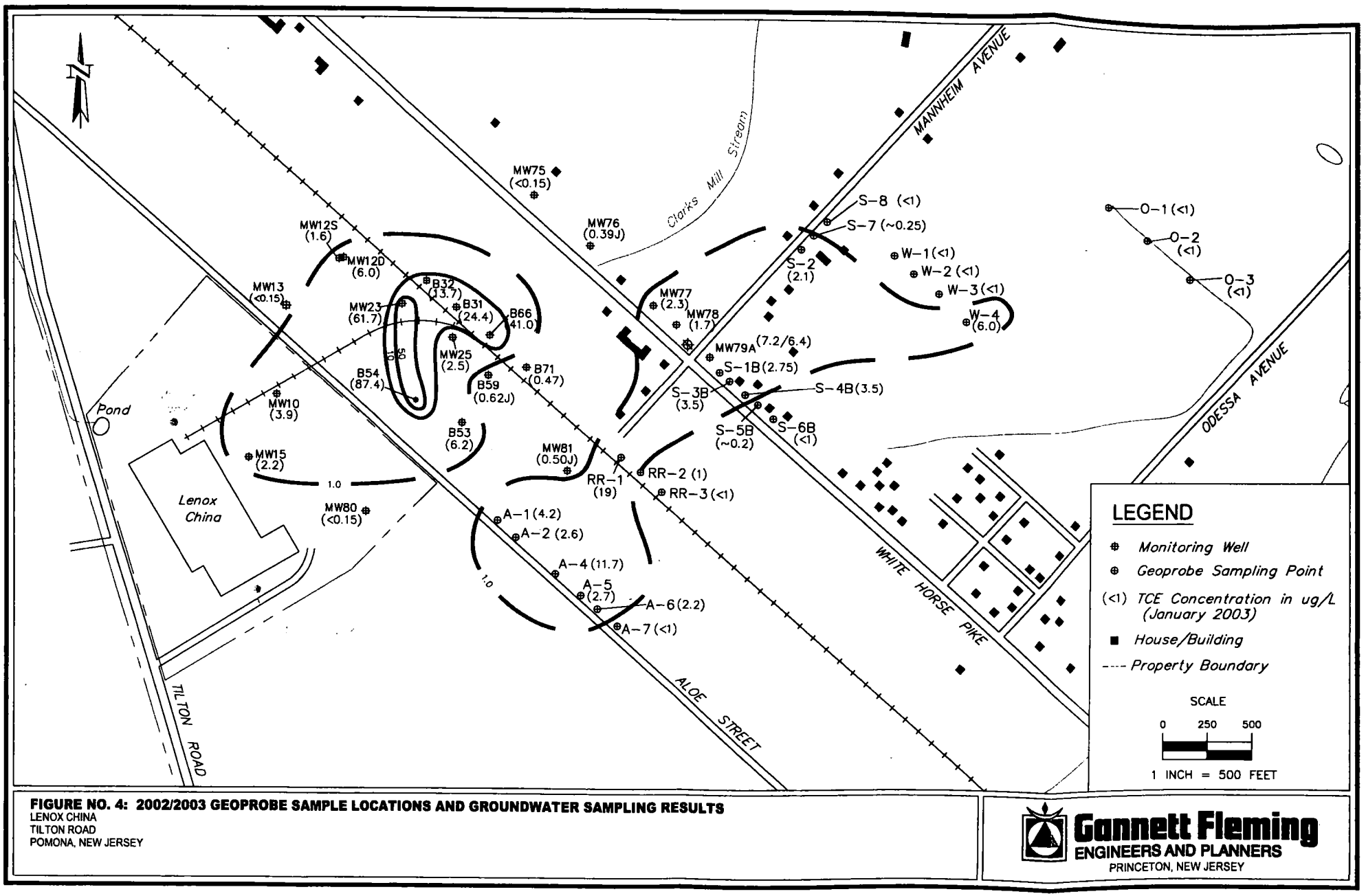


FIGURE NO. 4: 2002/2003 GEOPROBE SAMPLE LOCATIONS AND GROUNDWATER SAMPLING RESULTS
LENOX CHINA
TILTON ROAD
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

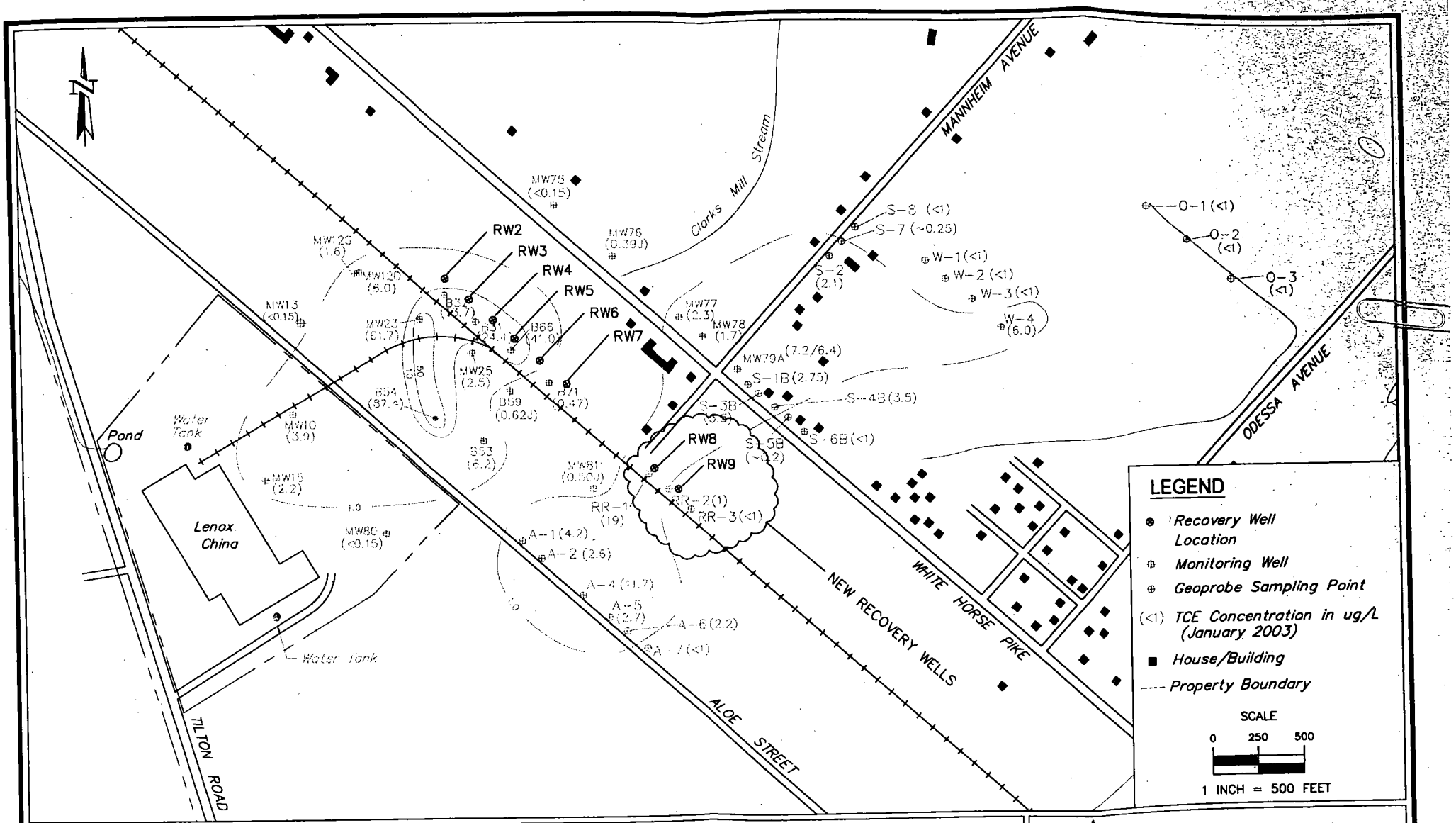


FIGURE NO. 6: PROPOSED RECOVERY WELL LOCATIONS
LENOX CHINA
TILTON ROAD
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

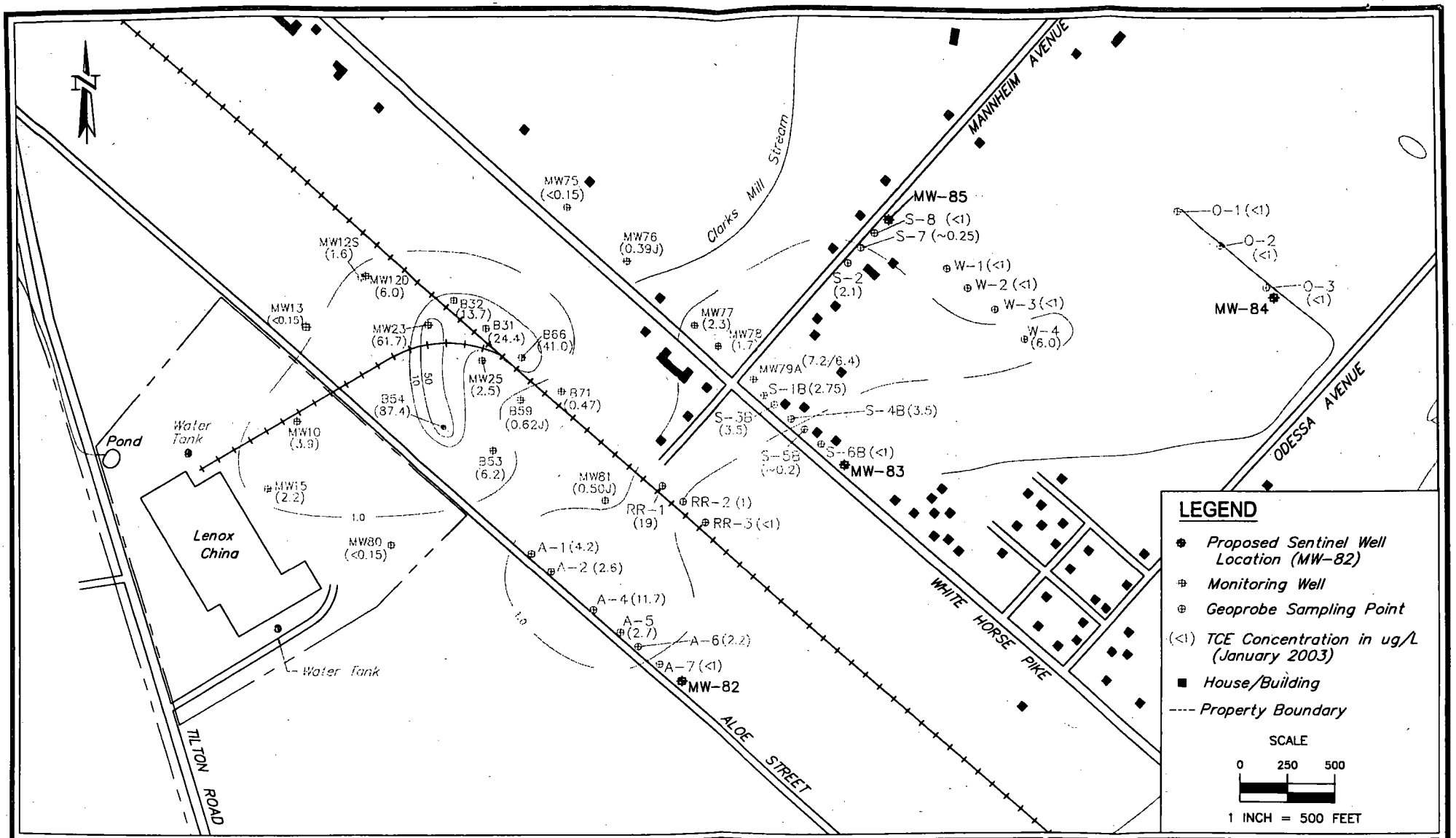


FIGURE NO. 7: PROPOSED SENTINEL WELL LOCATIONS
LENOX CHINA
TILTON ROAD
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

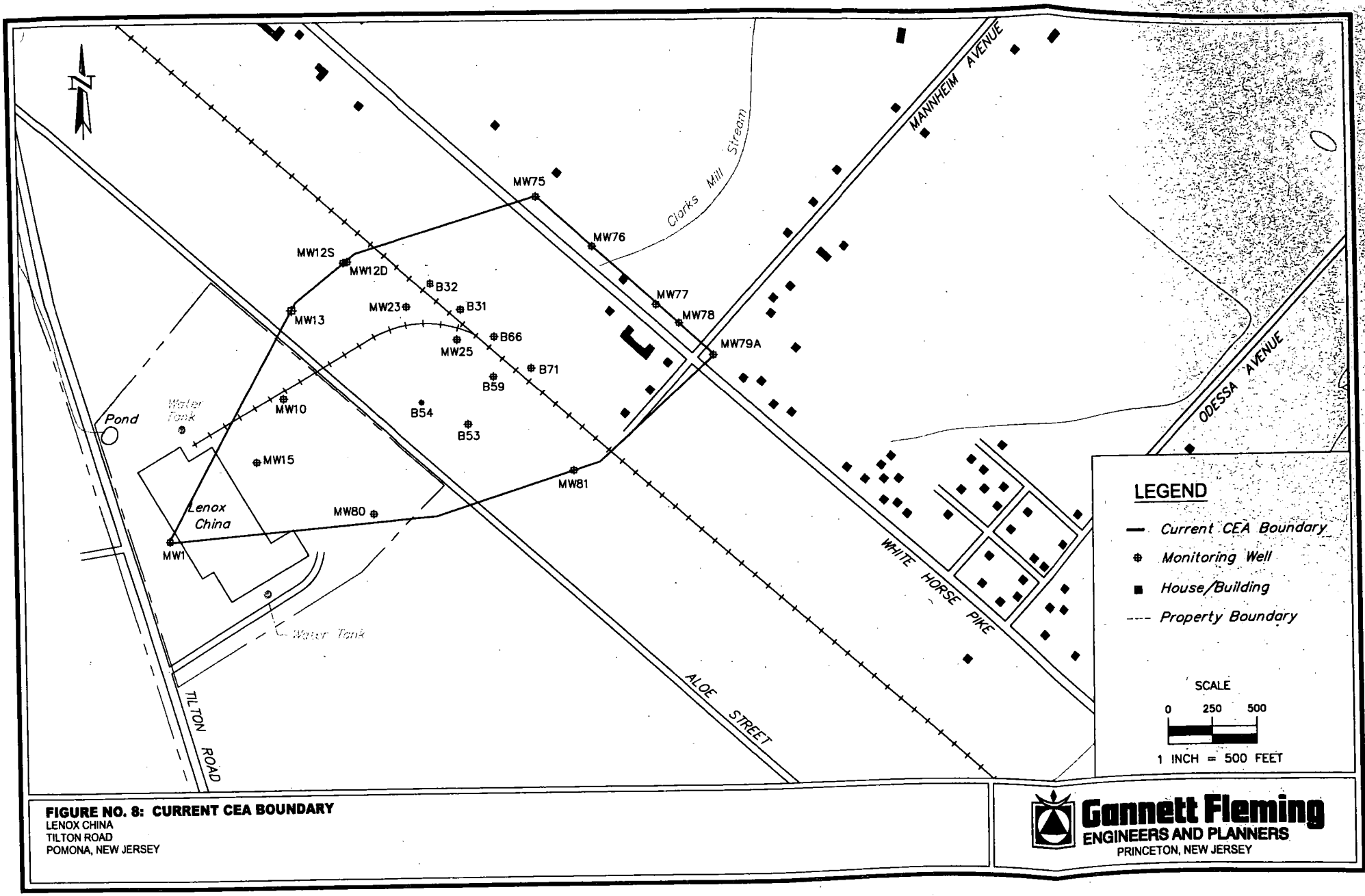


FIGURE NO. 8: CURRENT CEA BOUNDARY
LENOX CHINA
TILTON ROAD
POMONA, NEW JERSEY

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

TCE SENTINEL WELLS DATA

WELL	31-Aug-05	21-Jul-05	19-Apr-05	20-Jan-05	19-Oct-04
MW-75		ND	ND	ND	ND
MW-76		ND	0.41	0.36	ND
MW-77		1.90	1.8*	1.90	1.80
MW-78		2.3*	2.2*	2.00	1.80
MW-79A		**4.0***	**5.5***	**7.00**	**5.80**
MW-82	ND				
MW-83	ND				
MW-84	ND				
MW-85	ND				
MW-81		ND	0.33	ND	ND
MW-70A		NA	NA	NA	NA

LEGEND: 0.21

1.0 OR LESS

>1.0

>5.0

1.5 Increase Over Last Quarter

0.97 Decrease From Last Quarter

7.0* Daughter products detected

MW-12S	1.00	1.2	
MW-12D	6.4*	7.0*	
MW-14D	ND	ND	

Attachment 3

My Copy

LENOX CHINA FACILITY AND ADJACENT AREA
POMONA, NEW JERSEY

TABLE 1 SECTION 5

SUMMARY OF TCE CONCENTRATIONS IN GROUNDWATER (MAY 2002-JANUARY 2005)

Well	Oct. 28-30, 2003	Jan. 21-22, 2004	Apr. 27-29, 2004	Jul. 22-26, 2004	Oct. 18-20, 2004	Jan. 19-21, 2005		
MW1	<0.19	<0.19	<0.19	<0.20	<0.20	<0.20	✓	–
MW10	**5.8**	**3.0**	**3.9**	**6.9**	**7.0**	**5.3**	✓	↓
MW12S	**1.3**	**1.3**	**1.1**	**1.0**	0.86 J	**1.1**	✓	↑
MW12D	-	-	**5.4**	-	**6.9**	**6.7**	✓	↓
MW13	<0.19	<0.19	<0.20	<0.20	<0.20	<0.20	✓	–
MW-14D	-	-	-	-	<0.20	<0.20	✓	–
MW15	0.67 J	0.96 J		0.46 J	<0.20	0.88 J	✓	↑
MW23	-			-	-	-		
MW25	0.86 J			<0.20	<0.20	<0.20	✓	–
B31 (MW27)	**10.7**			**7.7**	**7.7**	**5.6**	✓	↓
B32 (MW28)	-			-	-	-		
B53	-			-	-	-		
B54	-			-	-	-		
B59	<0.19		.46 J	0.40 J	<0.20	<0.20	✓	–
B66	-		**6.3**	-	-	-		
B71	-		**2.8**	-	-	-		
MW75	<0.19/<0.19	<0.19/<0.19	<0.19/<0.19	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	✓	–
MW76	<0.19	<0.19	0.30 J	0.27 J	<0.20	0.36 J	✓	↑
MW77	**1.7**	**1.4**	**1.3**	**1.5**	**1.8**	**1.9**	✓	↑
MW78	**1.4**	**1.3**	**1.2**	**1.6**	**1.8**	**2.0**	✓	↑
MW79A	**6.0**	**5.4**	**5.2**	**5.4**	**5.8**	**7.0**	✓	↑
MW80	<0.19	<0.19	<0.19	<0.20	<0.20	<0.20	✓	–
MW81	<0.19	<0.19	0.27 J	<0.20	<0.20	<0.20	✓	–
GAC Influent	**7.6**	**4.5**	**5.9**	**6.1**	**4.9**	**4.4**	✓	
GAC Effluent	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	✓	
GAC Mid-Vessel	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	✓	

Notes:

All samples analyzed by USEPA Method 624, 601 or 502.2/524.2.

All concentrations are presented in micrograms per liter (ug/l).

- = Not analyzed J = Estimated concentration

Values in **bold** font exceed the site specific Groundwater Quality Criteria for TCE (1.0 ug/l).

6 increased - 125, 77, 78, 79A, 15, 76
3 decreased - 10, 12D, B31,
8 unchanged - 1, 13, 14D, 25, B59, 75, 80, 81

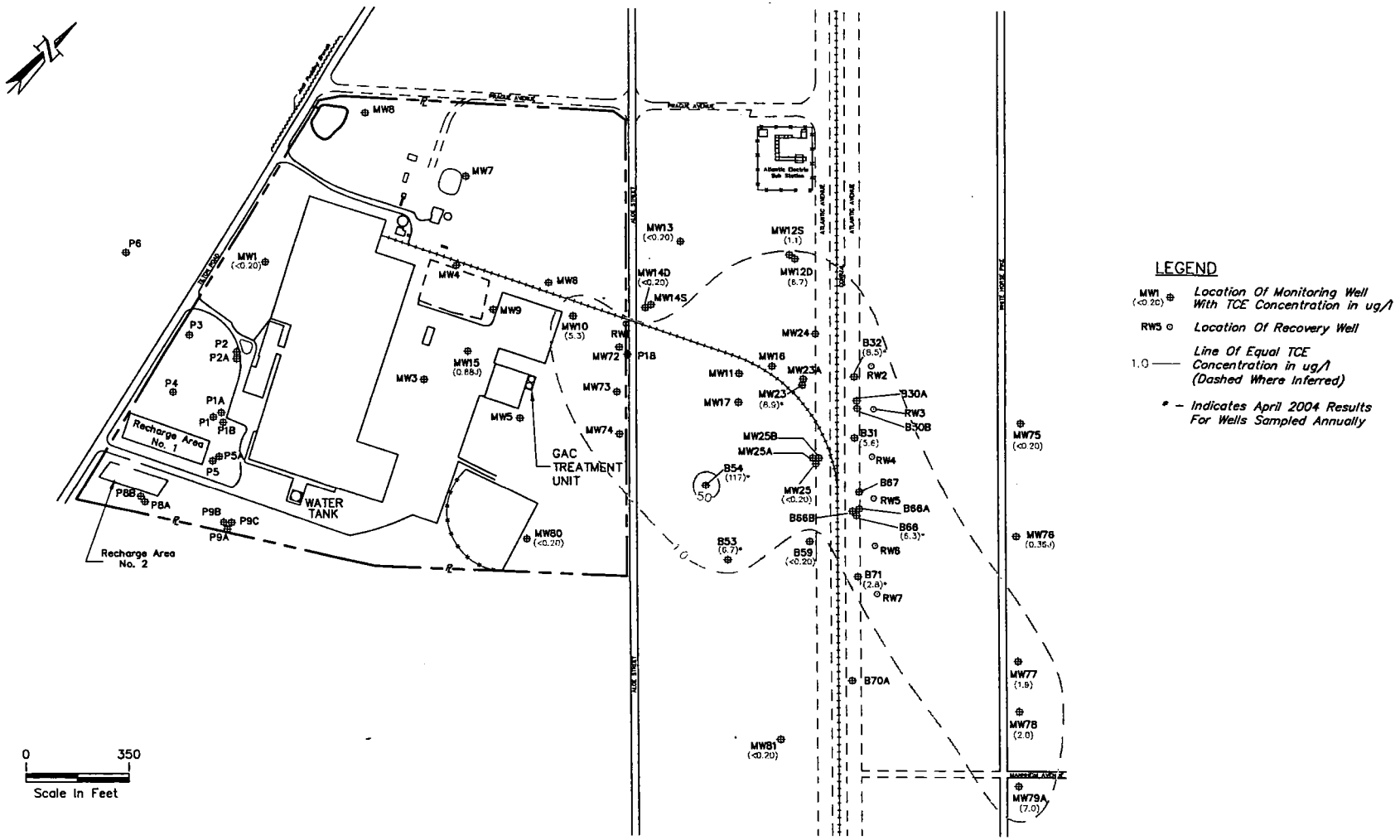
LENOX CHINA FACILITY AND ADJACENT AREA
POMONA, NEW JERSEY

TABLE 2 SECTION 5

TCE AND ASSOCIATED BREAKDOWN PRODUCT CONCENTRATIONS, JANUARY 19-21, 2005

Well	TCE	cis-DCE	trans-DCE	1,1-DCE	Vinyl Chloride
MW-1	<0.20	<0.15	<0.28	<0.35	<0.27
MW-10	**5.3**	0.63 J	<0.28	<0.35	<0.27
MW-12S	**1.1**	<0.15	<0.28	<0.35	<0.27
MW-12D	**6.7**	1.1	<0.28	<0.35	<0.27
MW-13	<0.20	<0.15	<0.28	<0.35	<0.27
MW-14D	<0.20	<0.15	<0.28	<0.35	<0.27
MW-15	0.88 J	0.36 J	<0.28	<0.35	<0.27
MW-25	<0.20	<0.15	<0.28	<0.35	<0.27
B-31	**5.6**	0.38 J	<0.28	<0.35	<0.27
B-59	<0.20	<0.15	<0.28	<0.35	<0.27
MW-75	<0.20	<0.15	<0.28	<0.35	<0.27
MW-85 (Dup MW-75)	<0.20	<0.15	<0.28	<0.35	<0.27
MW-76	0.36 J	<0.15	<0.28	<0.35	<0.27
MW-77	**1.9**	1.2	<0.28	<0.35	<0.27
MW-78	**2.0**	0.65 J	<0.28	<0.35	<0.27
MW-79A	**7.0**	4.2	1.4	<0.35	<0.27
MW-80	<0.20	<0.15	<0.28	<0.35	<0.27
MW-81	<0.20	<0.15	<0.28	<0.35	<0.27

Notes:
All concentrations are presented in micrograms per liter (µg/l).
J = Estimated concentration.
Values in **bold** exceed the site specific Groundwater Quality Criteria for TCE (1.0 µg/l).



LEGEND

MW1 (<0.20) ⊕ *Location Of Monitoring Well With TCE Concentration in ug/l*

RW5 ⊙ *Location Of Recovery Well*

1.0 —— *Line Of Equal TCE Concentration in ug/l (Dashed Where Inferred)*

* – *Indicates April 2004 Results For Wells Sampled Annually*

FIGURE NO: 4 EXTENT OF TRICHLOROETHYLENE IN GROUNDWATER, JANUARY 19-21, 2005
LENOX CHINA
POMONA, NEW JERSEY

Source: Base Map Obtained From Geraghty & Miller's August 1992 Groundwater Monitoring Report

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

Attachment 4

INORGANICS IN GROUNDWATER (ug/l)
LENOX CHINA, POMONA, NEW JERSEY
NJD002325074

LEAD

	8/94	7/95	7/96	7/97	7/98
MW-1	6.7	<3.0	25	<3.0	10.8
MW-3F	4.3	3.3	3.8	9.9	<3.0
MW-6F	7.7	<3.0	<3.0	<3.0	<3.0
MW-10					<3.0
MW-12S	<3.0	<3.0	<3.0	3.6	<3.0
MW-13	<3.0	<3.0	<3.0	3.3	<3.0
MW-15					<3.0
MW-17					<3.0
MW-25					<3.0
B-31					<3.0
B-59					<3.0
MW-72					31.1
MW-73	26.0	8.9	65.0	98.8	93.8
MW-74	72.0	13.0	30.0	13.3	51.7
MW-75	8.0	4.0	3.3	5.3	<3.0
MW-76					6.8
MW-77					<3.0
MW-78					<3.0
MW-79A	3.2	<3.0	<3.0	5.8	<3.0
MW-80					<3.0
MW-81					<3.0

LENOX CHINA FACILITY AND ADJACENT AREAS
POMONA, NEW JERSEY

TABLE 3 SECTION 5

INORGANIC ANALYTE CONCENTRATIONS, JANUARY 2005

Well No.	MW-1	MW-10	MW-12S	MW-13	MW-15	MW-25	B-31	B-59
Date Sampled	1/21/05	1/21/05	1/19/05	1/19/05	1/20/2005	1/20/05	1/19/05	1/19/05
Metals (µg/l)								
Iron (Unfiltered)	647 ✓	814 ✓	<100 ✓	<100 ✓	143 ✓	<100 ✓	<100 ✓	<100 ✓
Iron (Filtered)	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓
Lead (Unfiltered)	<3.0 ✓	3.2 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓
Lead (Filtered)	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓
Zinc (Unfiltered)	<20 ✓	<20 ✓	<20 ✓	<20 ✓	**40.0** ✓	**116** ✓	**70.3** ✓	<20 ✓
Zinc (Filtered)	<20 ✓	<20 ✓	<20 ✓	<20 ✓	**39.9** ✓	**115** ✓	**72.4** ✓	<20 ✓
TDS (mg/l)	43 ✓	143 ✓	123 ✓	103 ✓	159 ✓	85 ✓	124 ✓	78 ✓
TSS (mg/l)	16 ✓	7.0 ✓	<4.0 ✓	<4.0 ✓	<4.0 ✓	<4.0 ✓	<4.0 ✓	<4.0 ✓

Notes:
µg/l = Micrograms per liter.
mg/l = Milligrams per liter.
Values in **bold** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l) or Zinc (36.7 µg/l).

Table 3, Section 5 Continued . . .

Well No.	MW-75	MW-85*	MW-76	MW-77	MW-78	MW-79A	MW-80	MW-81	
Date Sampled	1/20/05	1/20/2005	1/20/05	1/20/05	1/20/05	1/20/05	1/20/05	1/19/05	
Metals (µg/l)									
Iron (Unfiltered)	732	<100	<100	<100	<100	159	<100	✓	<100 ✓
Iron (Filtered)	<100	<100	<100	<100	<100	<100	<100	✓	<100 ✓
Lead (Unfiltered)	**14.9**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	✓	<3.0 ✓
Lead (Filtered)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	✓	<3.0 ✓
Zinc (Unfiltered)	23.5	<20	<20	<20	<20	24.4	<20	✓	<20 ✓
Zinc (Filtered)	<20	<20	<20	<20	<20	20.3	<20	✓	<20 ✓
TDS (mg/l)	<10	29	87	21	19	80	84	✓	24 ✓
TSS (mg/l)	5.0	6.0	<4.0	<4.0	<4.0	<4.0	<4.0	✓	<4.0 ✓

Notes:

* MW-85 is duplicate of MW-75.

µg/l = Micrograms per liter.

mg/l = Milligrams per liter.

Values in **bold** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l) or Zinc (36.7 µg/l).